

**CONFIDENTIAL**

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14 September 1964

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Subject: [REDACTED]

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Gentlemen,

[REDACTED] reviewed the task performed in the subject contract and has uncovered areas of additional tasks which were not included in the contract price. As requested by the Contracting Officer's Technical Representatives [REDACTED] performed the task, incorporating a Microscope Vertical Adjustment Assembly. As shown on the attached [REDACTED] Estimate Sheet, the cost plus fee of this change [REDACTED]. Therefore, it is requested that a contract change be initiated to revise the total contract price [REDACTED].

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In addition, the task performed under the subject contract was increased by the following circumstances:

The basic performance requirement of the contract, insofar as measuring is concerned, is a  $\pm 2$  micron coordinate measurement accuracy. In designing the required equipment, [REDACTED] started with a metering system, the [REDACTED] Digitizer which is capable of resolving to 1/4 micron least count repeatability. Because of the  $\pm 2$  micron requirement, the basic system design was approached from a conservative standpoint, which was determined at 10 times component accuracy so that full advantage could be taken of the Digitizer capability. This approach was coordinated with the customer's technical representative throughout the course of the program. When final alignment was completed and the machine was tested for acceptance, it was found to have a repeatability of 1/4 micron in each axis. This performance is a marked advancement in the state of the art. It is recognized by [REDACTED] the customer did not require such an extreme accuracy as part of a deliverable item.

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However, what was accomplished is affording the customer a measuring capability which will become the basis of future systems accuracies in other areas. Consequently, the task accomplished was in excess of the task contracted for.

Declass Review by NIMA / DoD

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However, the effort expended [redacted] to achieve this result was greater than that which was anticipated at the time of the signing of the contract. This has resulted in the following expenditure; in excess of the contract price.

In addition, the basic precision ways, which made possible the final accuracy, were developed and patented [redacted] prior to initiation of the contract and the customer has benefited by the Company sponsored development which led to this achievement. It is requested that consideration be given to a contract change for equitable adjustment of funds for the task which led to the satisfactory accomplishment of the extremely accurate machine.

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Very truly yours,

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RJL/de

Encl. 1 Cost Sheet (2 cc)

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